Do-It-Yourself Compact DVR Security System

w/ 4 Hi-Res Indoor/Outdoor Night Vision CCD Surveillance Camera

COMPLETE SYSTEM

1 YEAR WARRANTY

INSTRUCTION MANUAL

Version 1.0

Wired

Model#
CLEARVU2
www.svat.com

NEED HELP?

PLEASE DO NOT RETURN THIS PRODUCT TO THE STORE

Please contact a DEFENDER customer support representative first regarding any additional information on product features, specifications or help with set-up.

Please contact us via one of the methods below:

Email:
support@svat.com

Online live web chat:
www.svat.com/support

Toll free telephone:
1.866.946.7828

Toll free fax:
1.888.771.1701

Having problems with this DVR?

Before calling technical support, please attempt to reset your DVR to factory default settings. This will not erase your recorded footage.

Press if your DVR is recording, then press

. If the DVR password is enabled, enter your password (Default: 111111). Select "LOAD DEFAULT" and press ►/4 twice to confirm. After the reset is complete, power off the DVR and power on again.

If you have forgotten your DVR password, please email customer support at: support@svat.com.

For more product information visit **www.svat.com**

PRODUCT WARRANTY & REGISTRATION

Please visit our website at www.svat.com to apply for your product's warranty registration.

We take quality very seriously. This is why all of our products come with a one year warranty from the original purchase date against defects in workmanship and materials.

If you have warranty or support issues please contact us using any of the following methods:

Phone: 866.946.7828
Fax: 888.771.1701
Email: support@svat.com
Website: www.svat.com

SVAT Electronics Canada
4080 Montrose Road
Niagara Falls, ON
Canada L2H 1J9

SVAT Electronics USA
2315 Whirlpool St., Unit 333
Niagara Falls, New York
USA 14305

1. SVAT products are guaranteed for a period of one year from the date of purchase against defects in workmanship and materials. This warranty is limited to the repair, replacement or refund of the purchase price at SVAT's option.
2. This warranty becomes void if the product shows evidence of having been misused, mishandled or tampered with contrary to the applicable instruction manual.
3. Routine cleaning, normal cosmetic and mechanical wear and tear are not covered under the terms of this warranty.
4. The warranty expressly provided for herein is the sole warranty provided in connection with the product itself and no other warranty, expressed or implied is provided. SVAT assumes no responsibilities for any other claims not specifically mentioned in this warranty.
5. This warranty does not cover the shipping cost, insurance or any other incidental charges.
6. You MUST call Defender before sending any product back for repair. You will be sent a Return Authorization form with return instructions. When returning the product for warranty service, please pack it carefully in the original box with all supplied accessories, and enclose your original receipt or copy, and a brief explanation of the problem (include RA #).
7. This warranty is valid only in Canada and the continental U.S.
8. This warranty cannot be re-issued.
9. Tearing the tamper-proof sticker on the DVR case will void the product warranty.

CAUTION

RISK OF ELECTRIC SHOCK, DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (BACK).
NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Graphic Symbol Explanation

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insinuated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating maintenance (servicing) instructions in the literature accompanying the appliance.

TABLE OF CONTENTS

INTRODUCTION 2
PRODUCT FEATURES 3
WHAT'S INCLUDED 4
BUTTONS & CONNECTIONS 4
INSTALLATIONS 5
Camera Installation Tips 5
Mounting 5
Wiring The Cameras 6
CONNECTiON DIAGRAM 7
Connecting the DVR to a TV/Monitor 7
Powering On 8
DVR OPERATION 8
Basic Operation 8
Record Mode 9
Playback Mode 9
MAIN MENU 10
System Setup 10
Time Setup 11
Password Setup 11
Load Default 12
Language Setup 12
Version 12
Camera Setup 13
Camera Enable 13
Camera Title 13
Camera Setting 13
CH1-CH4 Title 14
Record Setup 14
Record Type 14
Video Quality 15
Timer Rec Frame Rate 15
Motion Rec Frame Rate 15
Motion Rec Time 15
Record Mode 15
Time Recording [T] 16
Motion Recording [A] 16
Time Motion (Mixed) [M] 16
Disable Recording [–] 16

Buzzer Setup 16
Motion Alert 16
Video Loss Alert 16
HDD Full Alert 16
Buzzer Time 17
Event List 17
Time Search 17
Event Search 17
USB Device Setting 17
Format 18
Copy 18
Erase Video Data 19
Hard Drive Setup 19
Disk Full 19
HDD Size 20
HDD Used 20
HDD Format 20

DVR PLAYER SOFTWARE 20
Software Installation 21
Operation 21
Capturing Images/Video to your Computer 22
Settings 22

DVR PLAYER TROUBLESHOOTING 23

SPECIFICATIONS 24
4 Channel DVR 24
CCD Color Camera 25

INTRODUCTION

Thank-you for purchasing the CLEARVU2 DVR system. Correct installation and use of this system will greatly increase the security in your home or business. Please read through this manual and carefully follow the instructions to get the most out of your CLEARVU2 DVR system.

PRODUCT FEATURES

Auto-Start Recording
The DVR will automatically begin recording when you first power it on, providing you with an easy setup and instant recording capabilities.

Record up to 154 Days
The built-in 160GB HDD gives you a maximum of 154 days of continuous recording time. The Seagate HDD has been optimized for the DVR, allowing for faster read/write speeds and reliable recording of all your important footage. Warranty through Seagate for HDD.

Weatherproof Cameras
Each camera is built for the outdoors with professional grade weatherproof housing and a sunshade. This compact camera is also suitable for indoor use.

Password Protection
Ensure that only authorized users can change DVR settings or halt recording.

Motion Activated Recording and Alerts
You can set the DVR to record only when motion is detected and alert you with an audible beep. You can even set individual cameras to detect motion, and only video from those cameras will be recorded.

USB Backup
Transfer recorded footage to any USB drive for archiving or off site viewing. Footage will play directly on your PC using the included software.

View All Cameras at Once
You can easily view all cameras with quad screen display, or individually in full screen.

60ft of Wiring Per Camera
Each camera comes with 60ft of wiring, allowing flexibility in the placement of your cameras.

Scheduled Recording
Set up a 24 hour recording schedule based on your preferences.

4 Hi-Res CCD Color Cameras
The high quality CCD image sensors in these cameras provide a clear, crisp and consistent picture at 420 TV lines of resolution. They allow you to better distinguish facial features, which can help in the positive identification of individuals.

Search by Date, Time, or Event
Finding your recorded footage is easy. Simply choose the desired date and time range, and the requested video clips will appear. Clips are also labeled by event, which makes it easy to find footage that was captured by motion detection.

Night Vision
The cameras come equipped with 12 infrared LEDs that allow you to see in the dark, up to 15 feet away! They activate automatically when it gets dark, and deactivate during the day to save energy (CDS sensor).

Auto Resume Recording
After power is interrupted, the DVR will continue recording automatically based on your recording schedule. It will also ensure that your DVR configuration and custom settings are stored.

WHAT'S INCLUDED

DVR (w/ 160GB Internal HDD)

4 Indoor/Outdoor Color Cameras

4x 60ft 4 PIN DIN to RCA (male) Video/Power Wires

12ft RCA to RCA (male) Wire

5 BNC Connectors

Software CD

10ft Power Adapter for DVR

4x 5.5ft Power Adapters for Cameras

- Quick Start Guide
- 4 Window Warning Stickers
- Mounting Hardware
- Instruction Manual
- 1 Year Warranty
- Online/Toll Free Support

BUTTONS & CONNECTIONS

4 Channel DVR

1. **LED Indicators (HDD/Power)**
2. **FWD/REV Buttons**
3. **Play/Pause Button**
4. **Record/Stop Button**
5. **Left/Camera Channel Button**
   Navigate the on-screen menu/change camera channel.
6. **Right/Camera Channel Button**
   Navigate the on-screen menu/change camera channel.
7. **Up/Camera Channel Button**
   Navigate the on-screen menu/change camera channel.
8. **Down/Camera Channel Button**
   Navigate the on-screen menu/change camera channel.
9. **Menu Button**
10. **Power Input**
    DC power input (12V).
11. **BNC Video Output**
    For connection to your TV/monitor.
12. **BNC Video Inputs**
    Connects the cameras to the DVR.
13. **USB Port**
    Connect a USB drive or USB HDD for backup purposes.

CCD Color Camera

14. **Sun Shield**
    Helps prevent glare from bright lights.
15. **Infrared (IR) LEDs**
    Allows the camera to see in the dark up to 15ft away.
16. **CDS Sensor**
    Turns on the infrared LEDs when it gets dark out.
17. **Camera Housing**
    Made of anodized aluminum to prevent rust.
18. **Camera Mount**
    Allows the camera to be desk or wall mountable.
19. **Connection to Video/Power Wire**
    Converts to RCA.

INSTALLATIONS

Camera Installation Tips

- Camera(s) should be installed between 8 and 13 feet above the area to be monitored.
- Ensure there are no obstructions in the camera's view, to maximize viewing area.
- Ensure that the sunshade is positioned to avoid glare and position cameras away from direct sunlight.
- Decide whether the camera will be wall-mounted or if it will sit on a desk/table top.
  Note: If wall mounting, use the mounting hardware included in the package.
- Each camera comes with 60 feet of wire. Please make sure you mount the cameras no more than 60 feet from the DVR (unless you have purchased additional wiring).
- We strongly recommend using a surge protected power bar and/or an Uninterrupted Power Supply (UPS) to power the DVR and camera system.

Mounting

1. Mount each camera in the desired location no more than 60 feet from the DVR)unless you have purchased additional wiring). You may wall mount or desk mount these cameras.

Wall Mounted

Desk Mounted

2. Adjust cameras to the desired viewing angles.

Please refer to the CV67 manual for a drilling template for your camera

Wiring The Cameras

1. Plug the 4 PIN DIN female connection on the camera into the 4 PIN DIN male connection on the 60 ft video/power wire.

2. Plug the camera's power supply into the power jack located on the 60 ft video/power wire.

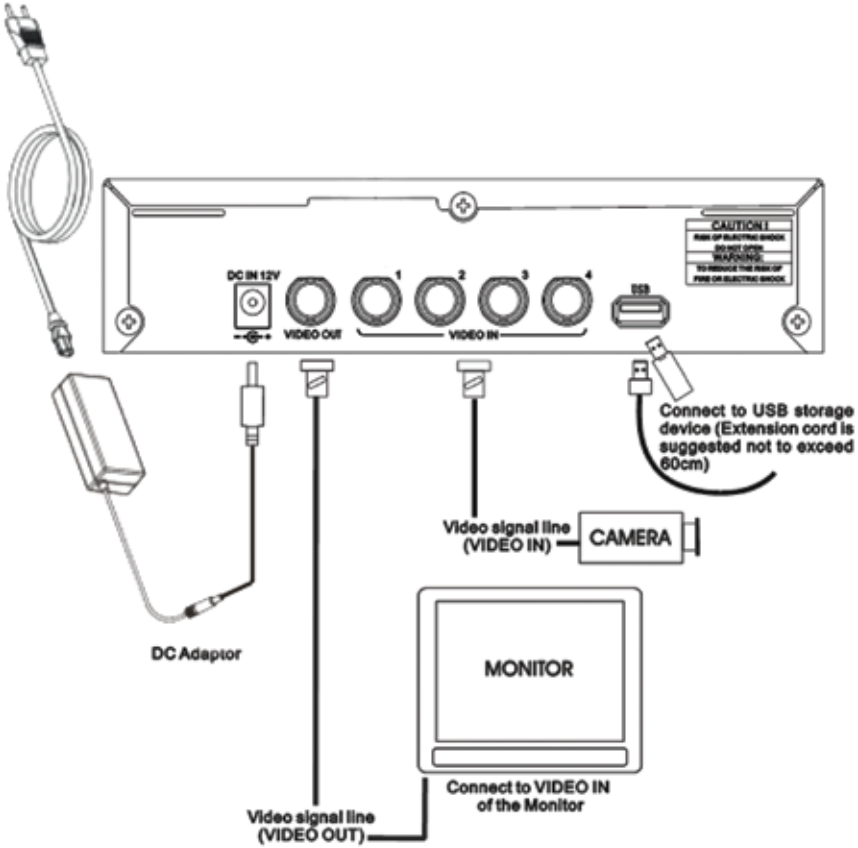
3. Plug the camera's power adapter into an AC outlet.

4. Attach the BNC connectors to the VIDEO IN ports and VIDEO OUT port on the back of the DVR.

5. Connect the 60ft video/power wire's male RCA plug to the VIDEO IN port for channels 1~4.

NOTE: For detailed instructions on camera features and functions, please refer to the CV67 camera guide included in the package.

CONNECTiON DIAGRAM



Connecting the DVR to a TV/Monitor

1. Connect one end of the RCA (male) wire to the VIDEO OUT port on the DVR.
2. Attach the other end of the RCA (male) wire to the VIDEO IN port on your TV/monitor.
3. **Ensure that your TV/monitor is set to the proper VIDEO INPUT channel.**

Note: Refer to the TVs remote control user manual if you cannot change the input

Powering On

1. The power adapter comes in two pieces. Assemble the power adapter by plugging the power cord into the power brick, as shown on the diagram on the previous page. Plug the three pronged power cord into a power outlet. (It is strongly recommended to use a surge protected power bar and Uninterrupted Power Supply (UPS) backup. This will prevent power surges or outages which may cause damage to the DVR or hard drive.) Plug the opposite end of the cord into the DC IN port on the back of the DVR. (Please refer to the diagram on the opposite page)

2. **To turn the DVR on and off, use the power switch on your UPS or power bar. This DVR does not have a power switch. This is for your security and helps to prevent other people from accidentally or intentionally turning the DVR off.**

3. The DVR will power on and you will see a boot screen. After the DVR initializes, your cameras should be displayed and recording will begin immediately. If you want the DVR to record continuously (24hr recording), no further setup is required. However, you may wish to adjust the system time if it is incorrect (see page 11 System Setup>Time Setup for more details).

   Note: If a video signal is not detected on one or more camera channels (VIDEO LOSS), the system will sound an alarm (by default). Press any button to stop the alarm. If video loss occurs on one of your camera channels during recording, the DVR will continue to record. However, if all four camera channels experience video loss, the DVR will stop recording.

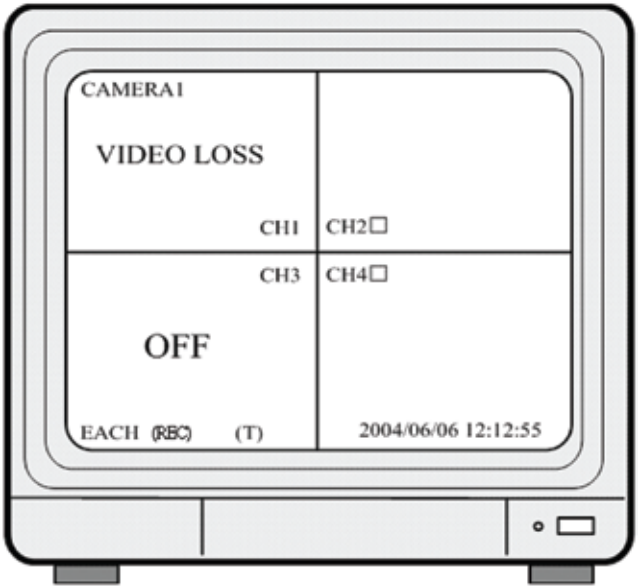
DVR OPERATION

Basic Operation

1. The DVR will automatically display all four camera views in Quad Screen. To view each camera individually, use the ▲/1, ◄/2, ▼/3, ►/4 buttons to view cameras 1-4 in full screen. Press the same buttons again to return to full screen.
2. To stop or start recording, press the ●/■ button.
3. While recording, you must press the ●/■ button first before playing back footage or entering the setup menu.
4. While in live view (not recording), press the ►/II button to enter playback mode.
5. While in live view (not recording), press the MENU button to enter the setup menu. If the DVR password is enabled, a password screen will appear. Use the channel buttons (1-4) to enter the password. The default password is (111111).

Record Mode

While you are recording you will see a screen similar to the following:



1. The block icon (□) beside each camera channel indicates that the camera channel is recording.
   Note :in this example that camera 1 and camera 3 is not recording.
2. The text on the bottom left corner of the screen indicates the method of recording (EACH/QUAD).
3. The letter in brackets indicates the recording mode (T=TIME RECORD / A=MOTION ACTIVATED RECORD / M = MIXED RECORD). For more information on these recording modes, please go to page 16 System Setup > Record Mode.
4. The channel labeled OFF in this example indicates that the user has disabled this camera channel.
5. The text on the top of each camera window indicates the name of the camera (This can be customized). In this example, the user has named the first camera "CAMERA1."
6. When VIDEO LOSS is displayed on a camera channel, it means that there is no power to the camera or that the camera is disconnected from the DVR.
7. The bottom right of the screen displays the system date/time.

Playback Mode

NOTE: If you are recording, press

1. Press the button to enter playback mode.
2. A screen will appear that displays a list of all your recorded footage, organized by date and time. Scroll to the desired date and time using the ▲/1▼/3 buttons. Press the button to start playback.

3. Press ⏯ to pause your footage.
4. Press ⏪ to view your footage in reverse.
5. Press ⏩ to fast forward your footage. Press it again to change the fast forward speed (FF1, FF2, FF3).
6. Press the ⏺/⏹ button to stop playback and return to Live Mode.
   Note: A maximum of 63 events can be recorded

MAIN MENU

- Press MENU to enter system setup. Use the channel buttons (1-4) to enter a password. The default password is 111111.
- To navigate the menu headings, use the ▲/1 ▼/3 buttons. Use the ▶/4 button to confirm your selection.
- To change a setting, press ▶/4
- Press MENU to exit the menu/ submenus and save your settings.

System Setup

Time Setup

Ensure that your system time is accurate so that your recorded footage will be labeled with the correct event time.

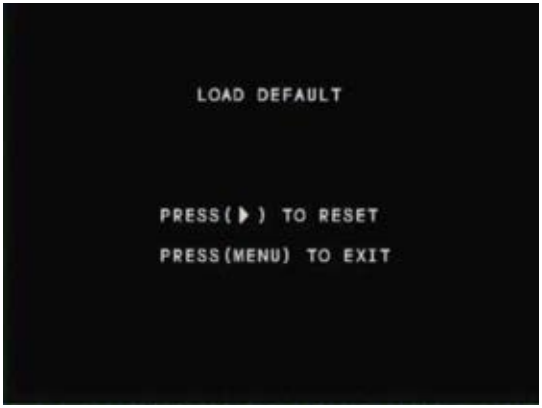
1. Use the ▲/1 ▼/3 buttons to select the value you want to change (year, month, day, time).
2. Press the ▶/4 to change the value.
3. Press MENU to confirm the date/ time change

Password Setup

On this screen you can change your password. You can also choose to disable or enable the Menu Password and Stop Rec Password. When you enable these passwords, the DVR will ask for a password when you try to stop recording or access the menu system. If you disable these passwords, a password will not be requested.

1. To enable/disable the menu or stop recording password, use the ▲/1 ▼/3 buttons to select the menu item, and use ▶/4 to toggle the password on or off.
2. To change the password, select "PASSWORD CHANGE." On the next screen, use the 1-4 channel buttons to enter the current password. Then enter a new password, and enter it again to confirm.

Load Default



Use this option to reset the DVR to factory defaults. Please note that this will erase all your custom settings, but your recorded footage will be preserved.

To reset your DVR to factory defaults and erase your custom settings:

Select "LOAD DEFAULT" and press ▶/4 twice to confirm. After the reset is complete, power off the DVR and power on again, by switching the power bar on and off.

Language Setup

Press ▶/4 to toggle between English and Chinese.

Version

Displays the current firmware version.

Camera Setup

Camera Enable

This option allows you to enable/disable camera channels. Use the ▲/1 ▼/3 buttons to select the camera channel you want to enable/disable. Then press the ▶/4 button to enable or disable that camera channel.

Camera Title

This option allows you to enable/disable the camera title display. If you use custom camera titles, you must enable camera title display for them to appear. Use the ▲/1 & ▼/3 buttons to select the camera title you want to enable/disable. Then press the ▶/4 button to enable or disable that camera title.

Camera Setting

This submenu allows you to adjust options for each camera:

1. Camera Select - Use the ▶/4 to select the camera channel to which you would like to make changes (CH 1-4).

2. Record Enable - Press ▶/4 to switch recording on/off for the selected camera channel.

3. Motion Detection - Press ▶/4 to switch motion detection on/off for the selected camera channel.

4. Motion Sensitivity - Press ► /4 to set up the motion sensitivity level (1-5, 1 being the most sensitive).
5. Hue – Press ► /4 to adjust the color of the camera.
6. Contrast – Press ► /4 to adjust the camera contrast.
7. Brightness - Press ► /4 to adjust the camera brightness.

CH1-CH4 Title

To rename the camera titles, select the letter you want to change using the ▲/1 ▼/3 buttons and press ► /4 to change the letter. The "V" cursor indicates which letter you are changing.

Record Setup

This menu will allow you to adjust recording settings and set a 24 hr recording schedule based on your preferences.

Record Type

Press ► /4 to select between QUAD and EACH mode. QUAD mode will record all four cameras, but will not let you view each camera individually during playback. EACH mode will record all four cameras and allow you to view each camera individually during playback. It is recommend that you use EACH mode.

Video Quality
Press ► /4 to select between Low, Normal and High quality settings. Lower quality settings will record a lower quality picture but will allow you to record more footage. Higher quality settings will record a higher quality picture but will use more storage space on the DVR's hard drive.

Timer Rec Frame Rate
Press ► /4 to change the timer record frame rate. This is the frame rate used when the DVR is scheduled to record by time (T). A lower frame rate will make the video footage more choppy, but will allow you to record more footage. A higher frame rate will make the video footage more fluid, but will use more storage space on the DVR's hard drive.

Motion Rec Frame Rate
Press ► /4 to change the motion record frame rate. This is the frame rate used when the DVR is scheduled to record by motion alert (A). A lower frame rate will make the video footage more choppy, but will allow you to record more footage. A higher frame rate will make the video footage more fluid, but will use more storage space on the DVR's hard drive.

Motion Rec Time
Press ► /4 to adjust the amount of seconds that the DVR will record after it detects motion (only when set to Motion Detect [A] or Time Motion [M] mode).

Record Mode

This menu allows you to set up the preferred type of scheduled recording (time,motion, time/motion off) throughout a 24 hour day (the time displayed is in military time (0 -24). For example, you may want to record continuously from 9:00 AM to 5:00 PM, but only record when motion is detected the rest of the time.

IMPORTANT: After you make changes and return to monitoring mode, you must press ●/■ to begin recording. When you press ●/■ to stop recording, the DVR will not adhere to your Record Mode settings until you press ●/■ to begin recording again. Use the ▲/1▼/3 buttons to select the hour of the day, and press ►/4 to change the type of recording for the specified hour of the day.

Time Recording [T]
The DVR will record continuously during the set time.

Motion Recording [A]
The DVR will record only when motion is detected during the set time.

Time Motion (Mixed) [M]
The DVR will record continuously during the set time, but when motion is detected it will record using the frame rate you set in "Motion Rec Frame Rate." This is useful if you want to save DVR storage space by setting the Timer Rec Frame Rate to a lower
number and the Motion Rec Frame Rate to a higher number. When no motion is detected, the DVR will record using less storage space (high quality footage is not needed since there is nothing happening). When motion is detected, the DVR will use more space but the footage will be more fluid. Setting the record mode to Time Motion will allow you more hours of recording time.

Disable Recording [–]
The DVR will not record during the set time.

IMPORTANT: After settings are changed and you exit the menu, press to confirm your recording schedule.

Buzzer Setup

Use this menu to change the way the DVR alerts you (audio alerts).

Motion Alert
Press ▶/4 to turn motion alert ON/OFF. The motion alert will sound whenever motion is detected on one of your cameras. Motion alerts will only sound when the DVR is recording

Video Loss Alert
Press ▶/4 to turn video loss alert ON/OFF. The video loss alert will sound whenever one of your cameras loses power or gets disconnected.

HDD Full Alert
Press ▶/4 to turn HDD full alert ON/OFF. The HDD full alert will sound when the hard drive is full and you do not have it set to overwrite.

Buzzer Time
Press ► /4 to adjust the amount of time in seconds (0-30 sec) that alerts will sound. You can also set the alert to continuous or off.

Event List

Time Search
Use this option to search the DVR for a specific recorded event by time.

1. Use the ▲ /1 ▼ /3 buttons to select the Year/Month/Day and Hour/Minute/Second, and press ► /4 to change the values.
2. Press ►/II to start playing the video footage at the specified time (if it exists).
3. "BEGIN TIME" and "END TIME" indicate the time/date range that recorded footage exists.

Event Search
Use this option to browse all recorded clips by event. The three event types are Time (Time Recording [T]), Alarm (Motion Recording [A]), and Mix (Time/Motion Recording [M]).

USB Device Setting

Before entering the USB Device Setting menu, you must insert a USB flash drive into the USB port on the back of the DVR.

Use this option to back up your recorded footage onto a USB flash drive for viewing on your PC. You must use the included software CD to view recorded footage on your PC (not Mac compatible).

In the USB Device Setting subscreen, the following options are available:

1. Copy
2. Format
3. Erase Video Data

IMPORTANT: Before copying your footage to the USB drive for the first time, you must format the drive for use in the DVR. This will temporarily prevent you from using it as a regular flash drive. To use it as a regular flash drive again, you must select Erase Video Data, and then allow Windows to format the drive after you have connected it to your computer.

Format

1. Press ▶/4 to format the flash drive for use in the DVR. This will delete all files currently on the flash drive.
2. Enter your password (if enabled) to confirm (Default 111111).

Copy

1. Press ▶/4 to enter the Copy subscreen.
2. Press ▶/4 to change the day you want to back up.
3. Use the ▲/1 ▼/3 buttons to select the day, month and year from which you want to back up footage. Use the ▶/4 button to change the values. To confirm this selection, press MENU.
4. Select Begin Time, and press ▶/4.

5. Use the ▲/1 ▼/3 buttons to select the hour, minute and second from which you want to start backing up footage. Use the ►/4 button to change the values. To confirm this selection, press MENU.
6. Select End Time, and press ►/4.
7. Use the ▲/1 ▼/3 buttons to select the hour, minute and second from which you want to stop backing up footage. Use the ►/4 button to change the values. To confirm this selection, press MENU.
8. Select COPY, then press ►/4. Press ►/4 again to start the file transfer.

Erase Video Data

After you have copied video footage over to your computer, select this option if you want to use the drive as a regular flash drive again. Press ►/4 to confirm. This will erase all video data and DVR formatting from the drive. When you try to use it as a flash drive on your computer, Windows will require you to format the drive. After formatting, the drive will function as a regular flash drive again.

Note: If you want to use the drive with the DVR once again, you must use the Format option on the DVR.

Hard Drive Setup

Disk Full

This option allows you to switch between Disk Full Stop, or Disk Full Overwrite. Disk Full Stop will stop the DVR from recording once the hard drive has run out of space. Disk Full Overwrite will begin to overwrite your footage once the hard drive has run out of space. This allows for continuous, uninterrupted recording.

1. Press ►/4 to toggle between the two modes.

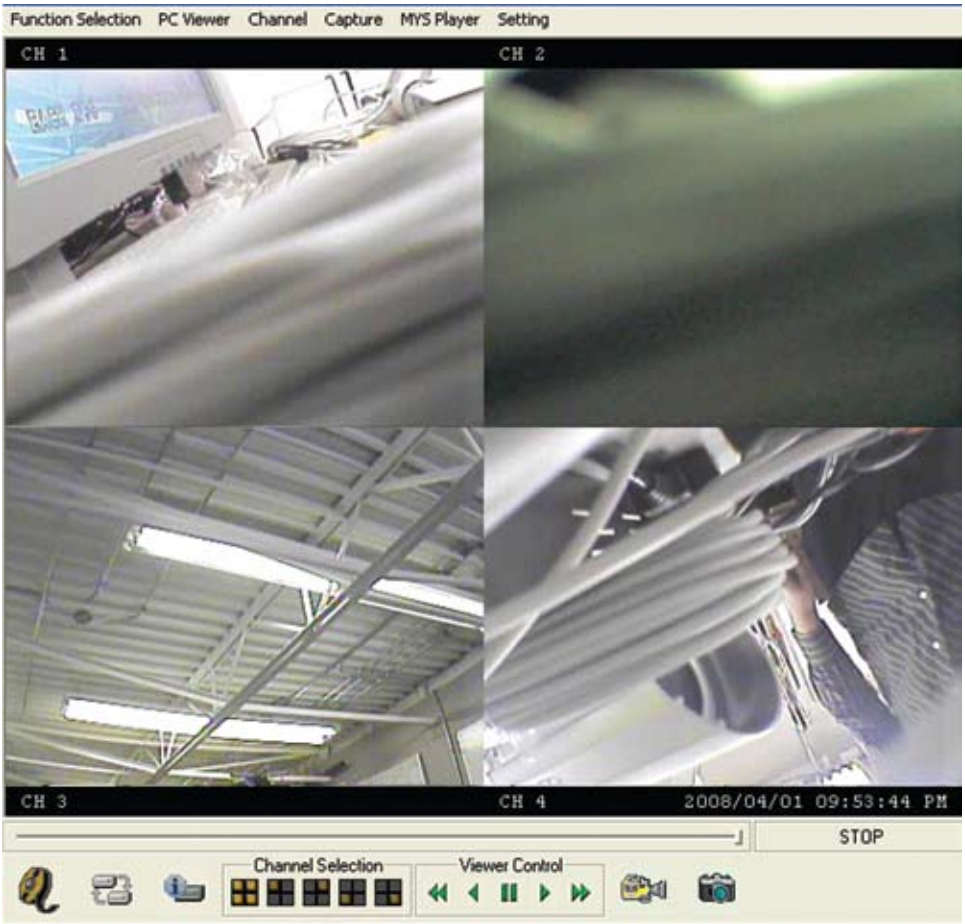
Note: If the DVR is on Overwrite, the hard drive will be cleared once it has reached maximum capacity. This will allow for continuous uninterrupted recording.

HDD Size
This number indicates the size of the hard drive (in megabytes).

HDD Used
This number indicates how full the hard drive is (in megabytes).

HDD Format
To erase the hard drive, select this option and press ► /4. Enter your password to confirm. Warning:
This will erase all your recorded footage.

DVR PLAYER SOFTWARE



To view recorded footage on your computer, you must use the included player software. This software allows you to view the footage like you would on the DVR (quad screen view). Please note that the DVR Player Software is not Mac compatible (Windows only).

Software Installation

1. Place the CD-ROM that was included with the DVR system into your computer's CD-ROM drive. If your computer does not automatically open the CD folder, go to Start>My Computer and double-click on the CD-ROM icon.
2. Copy and paste the program called Video Player onto the C: of your computer (My Computer>C:)
3. Create a shortcut to this program. Right click on the program and select Send to > Desktop (Create Shortcut).
4. Insert the USB flash drive into a USB port on your computer.
5. A window may pop up showing your flash drive. The window will be empty, since Windows cannot read the DVR video files.
6. Open the Video Player by double clicking the shortcut on your desktop. The software will automatically create a folder called "Config" in your C: drive, which will hold your settings. Please do not move, alter or delete this folder.
7. When the program opens, it will detect your flash drive and automatically begin playing your footage.

Operation

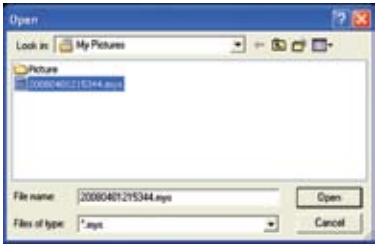
Many of the player controls are very similar to the DVR's. Below is a chart explaining the icons and their functions:

	Fast Review		Review
	Pause Playback		Play
	Fast Forward		Quad split screen display
	CH1 Full Screen Display		CH2 Full Screen Display
	CH3 Full Screen Display		CH4 Full Screen Display
	Click this button to capture images as an image file (JPG)		
	Click this button to record video footage onto your computer. Before recording videos onto the PC, first click the "Pause" button.		
	Click this button to play back recorded materials (stored on PC). You must have captured footage using and in order to use this function.		

Capturing Images/Video to your Computer

1. Press the button to capture a picture/screenshot of the DVR footage. Screenshots will be stored in JPEG format, in C:\Capture_MYS. These JPEG picture files can now be stored or emailed.

2. Press the button to record video footage to your computer. Before clicking the button, ensure that the video is paused. A window will appear, showing that the video is capturing. Press "Stop Capture" when you are done capturing. The video will be stored in C:\Capture_MYS, but will only be readable by the DVR Video Player software.

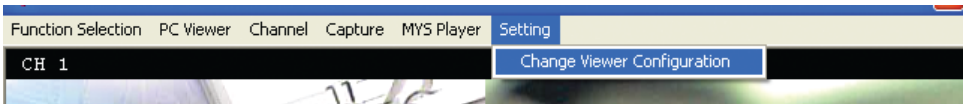


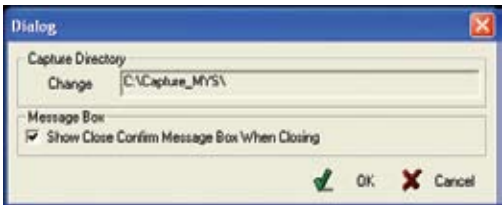
3. To view your captured video, press to switch to capture playback mode.

4. A dialog box will open, allowing you to select the file to play back. After you select the file, click Open to begin playback.

Settings

Click the Setting dropdown menu to change the file path of the captured footage (where the footage will be stored). The default file path is C:\Capture_MYS.





DVR PLAYER TROUBLESHOOTING

No display on television	1. Make sure all RCA and power cables are plugged in securely and in their proper places. 2. Make sure your television is on the correct channel (input mode).

DVR not recording	1. Make sure recording is enabled in each camera's setting. Go to >Camera Setup>Camera Setting and enable recording for each camera if it has been disabled. 2. Make sure recording is enabled and set to the correct recording setting in scheduled recording. Go to >Record Setup>Record Mode. If a line (-) is over any hour of the day, that means recording is disabled for that time period. Press ► /4 to enable recording for that hour. Also make sure you press REC when you return to Monitoring Mode, or your scheduled recording will not take effect. 3. Your disk may be full. By default the DVR should start writing over your recorded files, but this option may be disabled. Go to Menu>Hard Drive Setup>Disk Full. Set it to OVERWRITE. 4. Make sure your DVR is in Monitoring Mode, and not at a menu screen or in Playback Mode.
No playback	1. There is a delay while the DVR searches for your recorded files. Wait a few moments and your files should appear. 2. Make sure you are not in Recording Mode. Pressing PLAY during recording will have no effect. Press STOP first. 3. If you have just formatted the hard drive or your drive is otherwise empty, there will be no files to play back.
During playback, I can't switch to different camera views.	To switch between cameras during playback, you must have recorded in EACH mode. Change this setting using >Record Setup>Record Type.

SPECIFICATIONS

4 Channel DVR

Functionality	Simplex
Video Compression	MJPEG
Live Resolution	720 x 480
Recording Frame Rate	Max. 120FPS (30 FPS per camera channel)
Recording Time	Max 154 Days (lowest quality settings @ 1FPS)
Recording Resolution	640 x 224
Recording Method	Each/Quad
Recording Qualities	Low/Medium/High
Recording Modes	Manual/Schedule/ Motion Detection
Recording Media	ATA 3.5" HDD
Auto Resume Recording	Yes
HDD Type	Internal (removable)
Storage Capacity	Max. 750GB, 160GB Included
Video Format	NTSC/PAL
Video Loss Alarm	Yes
Video Inputs	4CH Composite BNC
Video Display Output	1CH Composite BNC
Live Frame Rate	120FPS
Live Display	Single/Quad
Back-up/File Transfer	USB (1.1) Flash Drive (not included)
Play Search Mode	By Date, Time, Event
Play Speed	1X, 2X, 3X
Play Mode	Single/Quad
OSD & System Menu Display	Yes
OSD Language Display	English/Chinese
Time and Date Stamp Display	Yes
Password Protection	Menu, Stop Recording
Adjustable Screen Settings	Color, Brightness, Contrast
Operating System	Proprietary
Processor	Proprietary
Disk Full Warning	Yes
Automatic Overwrite Option	Yes
Playback Navigation	Review, Play, Fast Forward, Pause, Stop
LED Indicators	Yes
Housing Material	Aluminum
Housing Color	Black
Power Input	DC12V/2A
Power Adapter Input	AC 100~240V 50/60 Hz (adapter)
Power Consumption	24W
Operating Temperature	41°F ~ 104°F
Operating Humidity	<80%
Dimensions	9.375" x 7.75" x 1.75"
Weight	3.15lbs

CCD Color Camera

Camera Type	Bullet
Image Sensor	1/4" Color Sharp CCD
Resolution	420 TV Lines
Outdoor Use	Yes
IP Rating	IP65
Focal Length	3.6mm
Focus Type	Fixed
Night Vision	Yes
No. of IR LEDs and Range	12, up to 15ft
IR LED Control	Automatic (CDS Sensor)
Video Output	4 PIN DIN (60ft 4 PIN DIN to RCA male Video/Power Wire Included)
Min. Illumination	0 lux
IR Wavelength	850nm
TV System	NTSC
Microphone	No
Motion Detection	No
Viewing Angle	60 Degrees
Electronic Shutter	1/60 ~ 1/100000 sec
BLC	No
AGC	Automatic
ELC	Automatic
Line Lock	No
Iris Control	No
White Balance	Automatic
Sun Shield	Yes
IR Cut Filter	No
Housing Material	Anodized Aluminum
Housing Color	Black
Signal/Noi se Ratio	>48dB
Camera Bracket	Yes
Operating Temperature	-14°F ~ 122°F
Operating Humidity	98%
Camera Power Input	DC 12V 300mA
Power Adapter Input	120V 60Hz
LED Power Indicator	No
Dimensions	5.5" x 5" x 2.44" (with stand)
Weight	0.85lbs (with stand)

SVAT SUPPORTS CRIME STOPPERS

Crime Stoppers programs are operated as non-profit charities and are managed by a volunteer board of directors who raise funds and pay rewards to individuals who anonymously call with information that helps solve crime.
Rewards are paid for tips that lead to the arrest and indictment of people charged with felony offenses, and to date Crime Stoppers statistics show a conviction rate of approximately 95%.

To receive more information about Crime Stoppers or to make a charitable donation please fill in the fields on the back of this page, cut on the dotted line and mail in.

PLACE
POSTAGE
HERE

CRIME STOPPERS INTERNATIONAL

P.O. Box 614
Arlington, Texas
U.S.A. 76004-0614

SVAT ELECTRONICS
now you can see

SVAT SUPPORTS CRIME STOPPERS

To receive more information about Crime Stoppers or to make a charitable donation please fill in the fields below, cut on the dotted line an mail in.

www.svat.com

CRIME STOPPERS INTERNATIONAL

Crime Stoppers International is an organization of community based civilian Crime Stoppers programs, which assist police in solving crime. You can find more information about Crime Stoppers at www.c-s-i.org.

Local Crime Stoppers programs are partnerships between the public, media and local policing organizations. Each program is run by a citizen board, whose purpose is to advertise a local telephone number, which anonymous persons can call with information regarding a crime. Callers (tipsters) may be eligible for a cash reward for their information.

If your community does not have a Crime Stoppers program and would like information about starting one, return this card with the following information.

NAME: _____ PHONE: _____

ADDRESS: _____ CITY: _____

PROV/STATE: _____ COUNTRY: _____ POSTAL/ZIP CODE: _____

E-MAIL ADDRESS: _____

Charitable donations can be made to “CSI” by returning this card in an envelope with your check or money order to the address on the other side.

Amount $

THANK YOU

CLEARVU2

NOTES

Customer Information Card

User's Name:	
Company Name:	
Address:	
Postal Code:	
Phone Number:	
Email:	
Model Number of Product:	
Serial Number of Product:	
Purchase Date:	
Place of Purchase:	

NOTE: We recommend that you keep a record of your purchase receipt with your manual for any future returns or support issues.

Disclaimer

SVAT does not endorse any of SVAT products for any illegal activities. SVAT is not responsible or liable in any way shape or form for any damage, vandalism, theft or any other action that may occur while a SVAT product is in use by the purchaser.

Wired

Model#
CLEARVU2
www.svat.com